

Precision and Possibilities

Explore Stratasys® F123™/F123CR Series
and F770™ Applications



See What's Possible

The possibilities are nearly endless with the F123, F123CR composite series and F770 printers. From complex parts to high-strength tooling to economical prototypes, these 3D printers can provide you with the fast, repeatable accuracy you need to power your business forward. This sampling of applications is just a taste of what can be achieved.



Note: F770 is only enabled to print ASA Ivory and ABS-M30 Black.



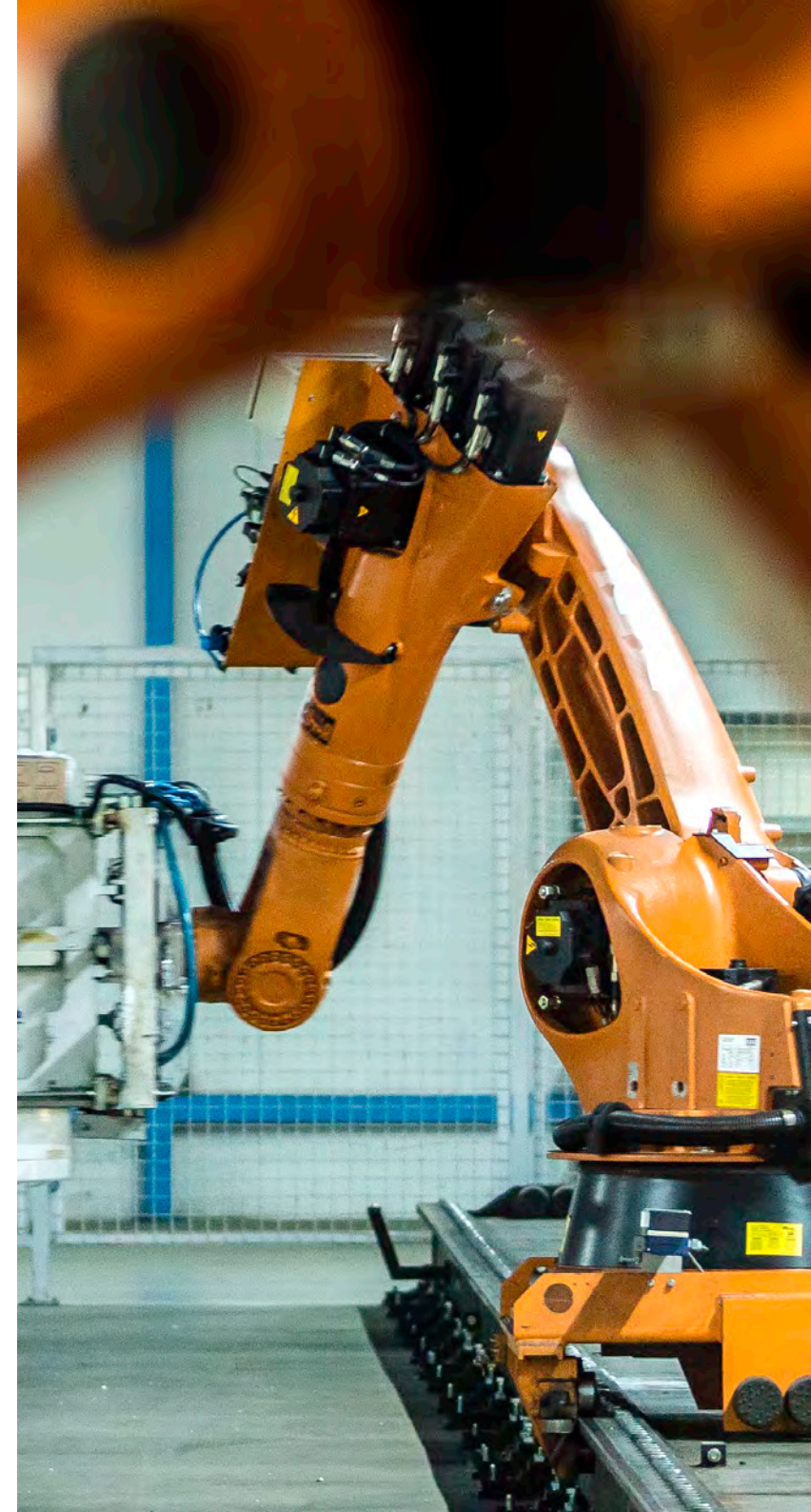


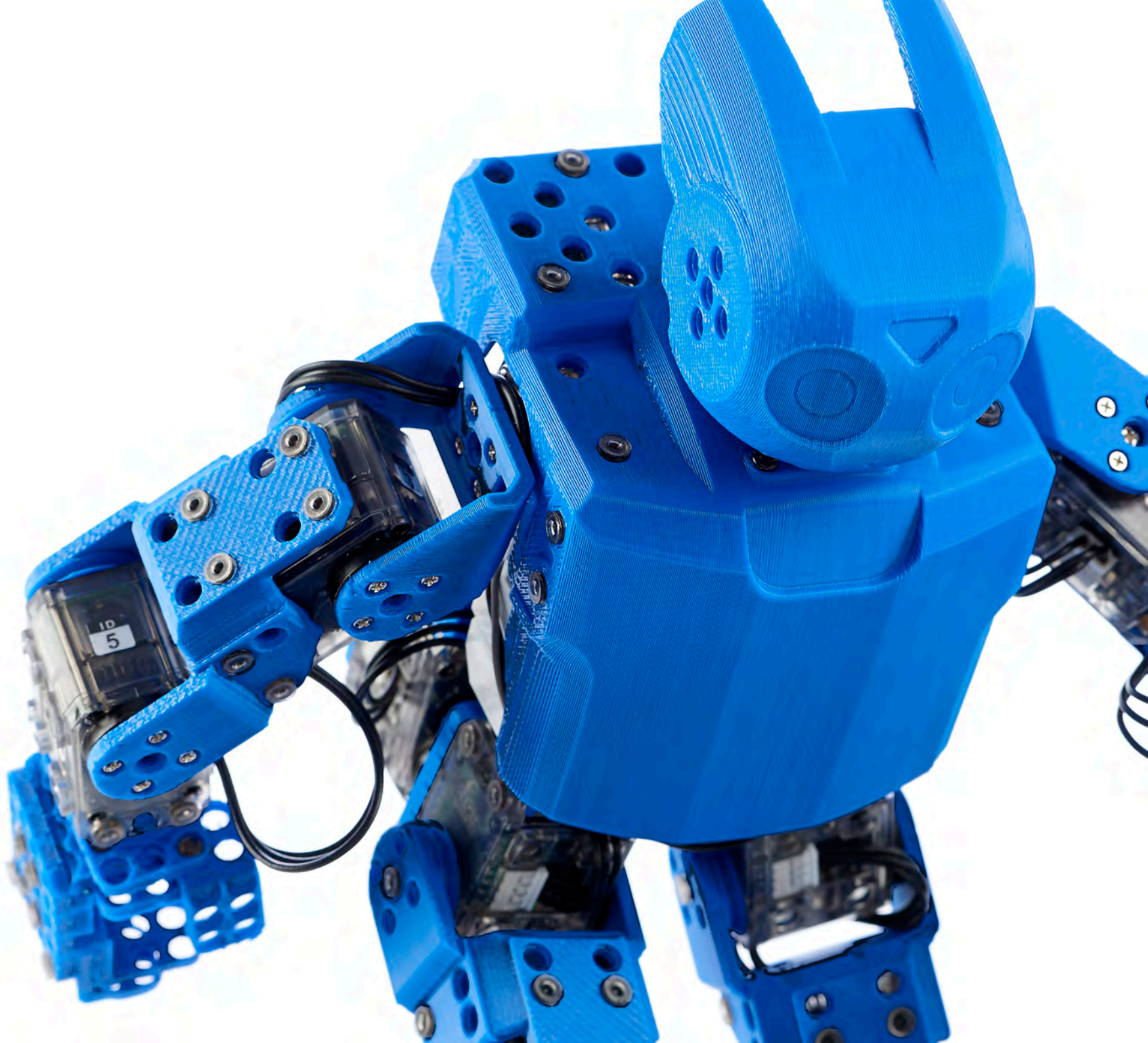
End Effector (Extension Fixture)

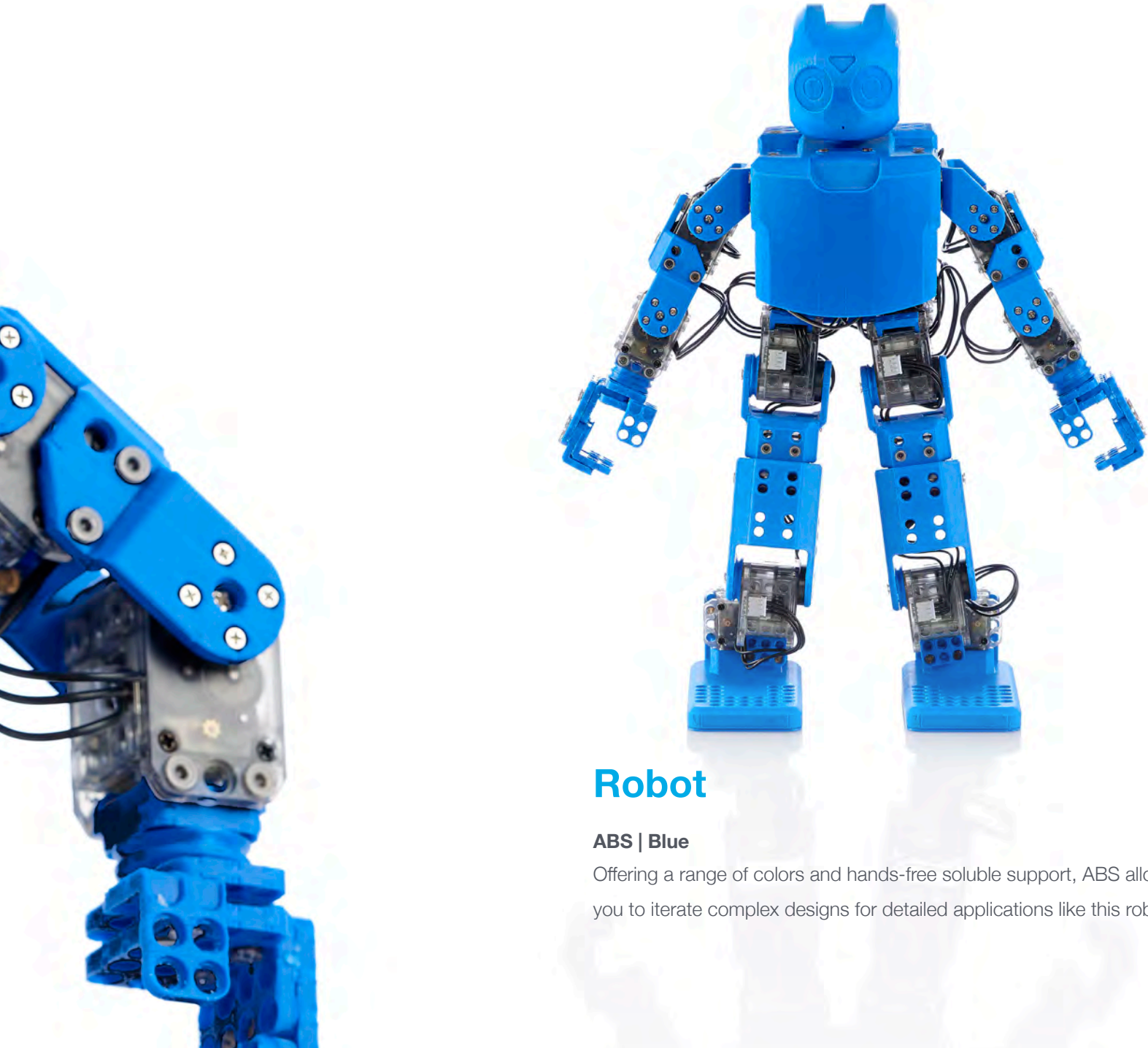
ABS-CF10 | Manufacturing Aid

Strong, stiff and lightweight, ABS-CF10 carbon fiber material is well suited for high-use parts that require durability such as this robotic arm extension fixture.

Note: This part uses ABS-CF10 and can only be printed on the F170™, F270™ and F370™.







Robot

ABS | Blue

Offering a range of colors and hands-free soluble support, ABS allows you to iterate complex designs for detailed applications like this robot.

Electric Enclosure

ABS-ESD7™ | Black

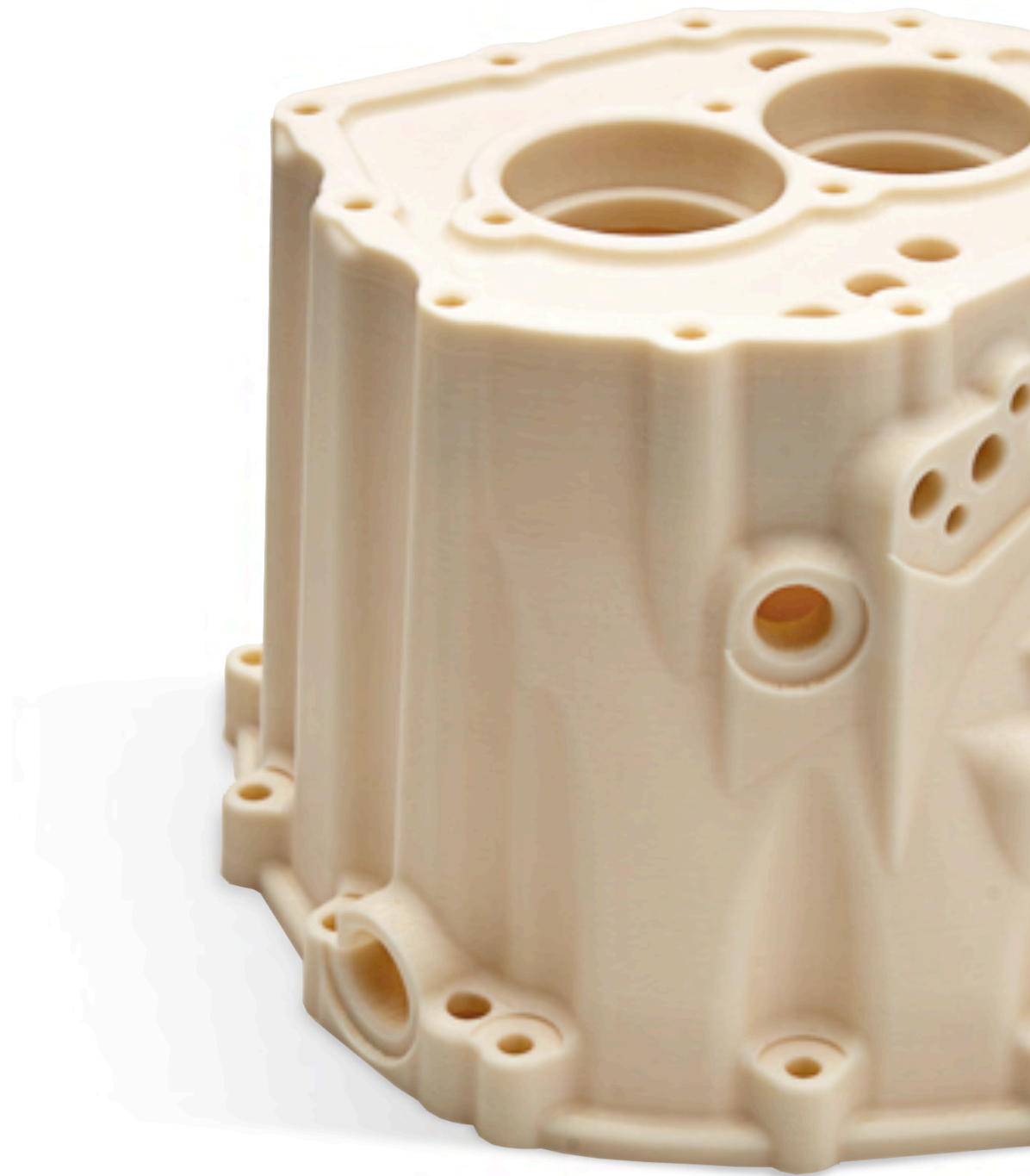
The durable and electrostatic-dissipative properties of ABS-ESD7 make it an ideal choice for electronic components such as this electric enclosure.



UTV Gearbox Prototype

ASA | Ivory

Offering high mechanical strength, production-grade quality and UV stability, ASA printed on the F123 Series is well-suited for form and fit testing of automotive prototypes.

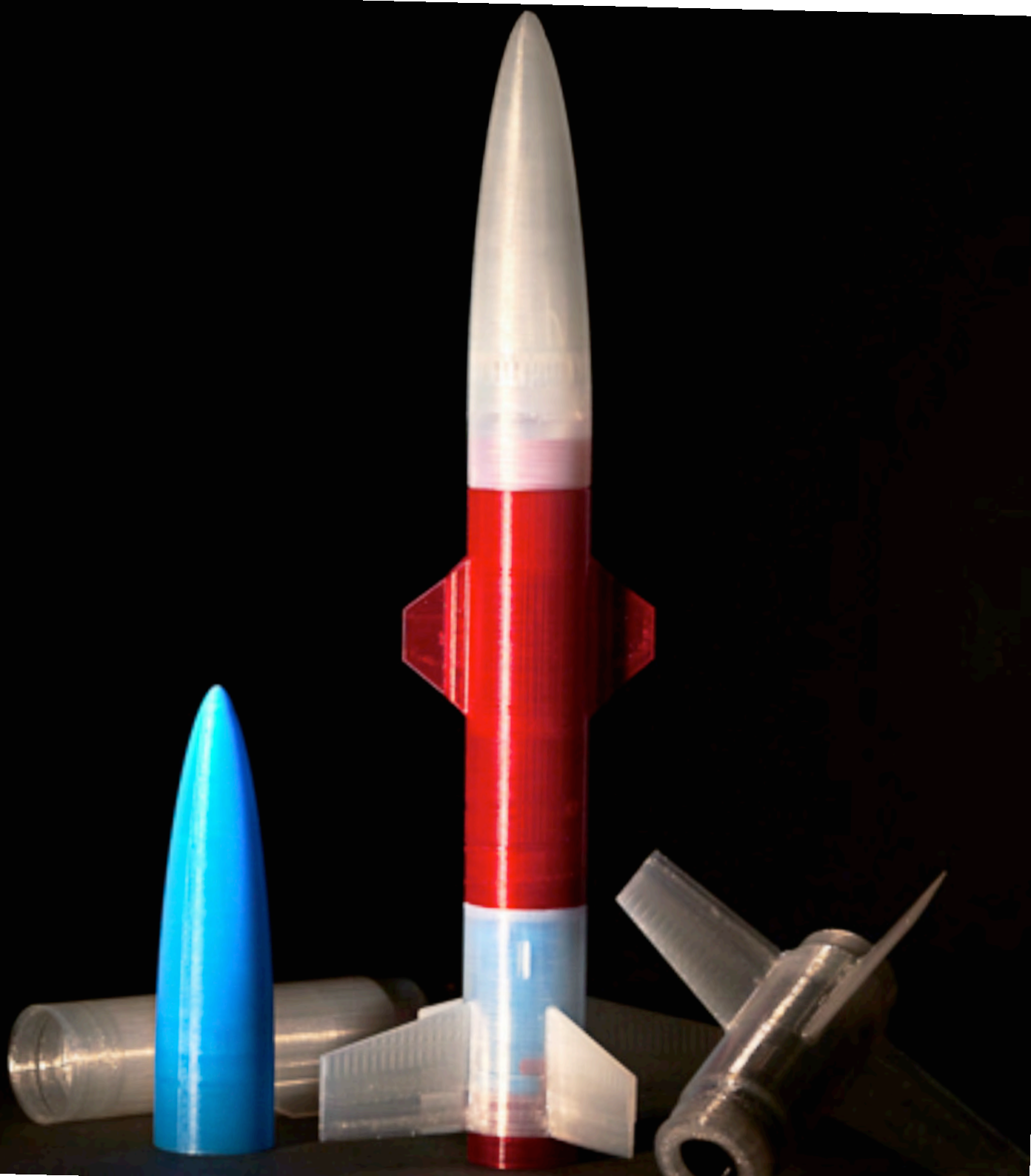




Rocket

PLA | Red, White, Blue, Black

Printing in fast-draft mode on the F123 Series, PLA allows for translucent parts and economical design options — making it well-suited for early concept models or educational projects.





Note: Due to size, this part can only be produced on the F770 3D printer.

Race Car Hood

ABS-M30 | Prototype

Using FDM technology with ABS-M30 material enables you to achieve large custom designs like this hood vent with improved part performance and productivity.

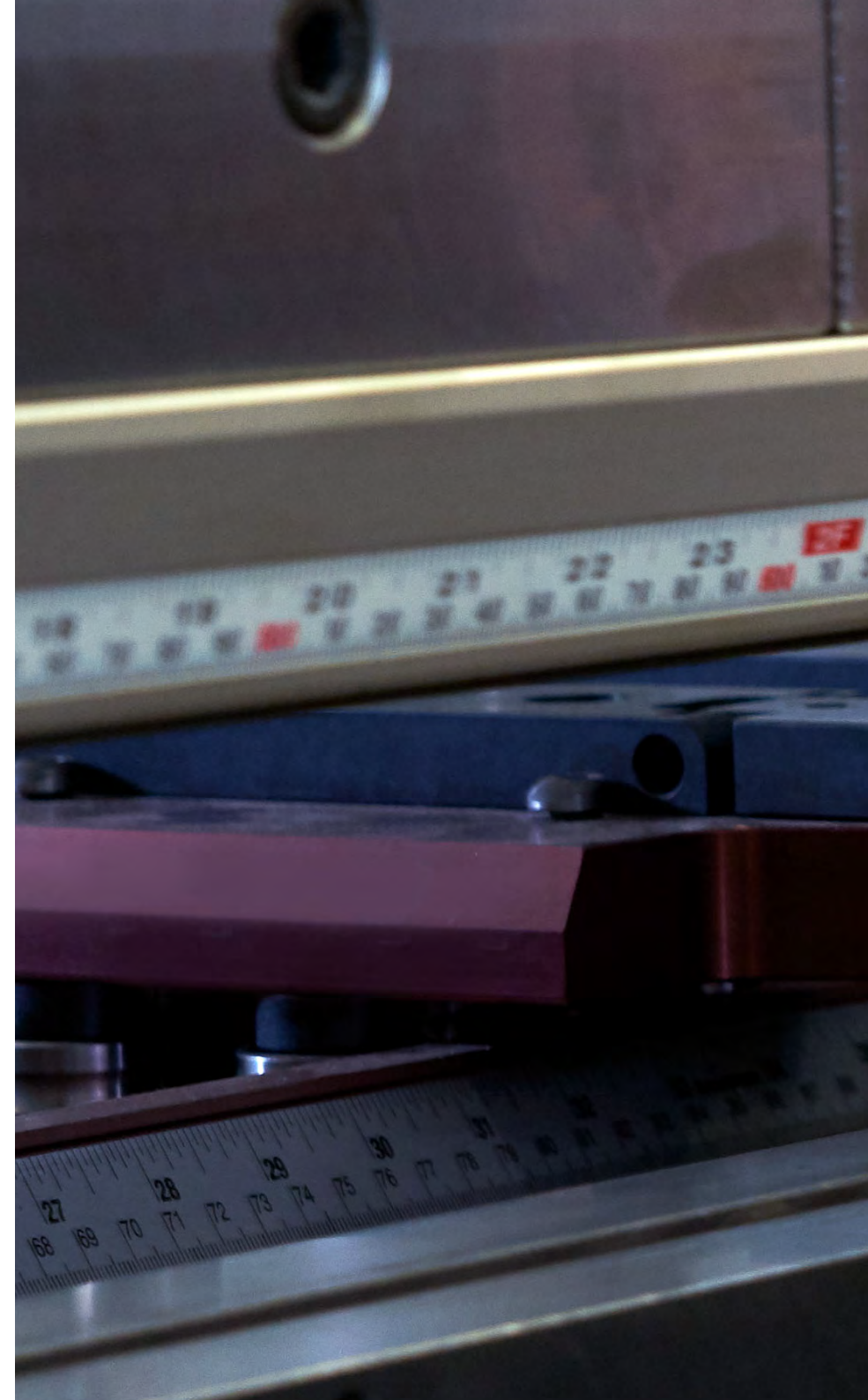




Sheet Metal Brake Forming Tools

Diran 410MF07 | Gray

Due to the lubricity of the forming tools 3D printed with Diran™ 410MF07, sheet metal brake parts easily bend and flow into shape.









Outlet Cover

ASA | Ivory

As a material that offers UV resistance and strength, ASA is ideal for outdoor-use production parts like this outdoor outlet cover.

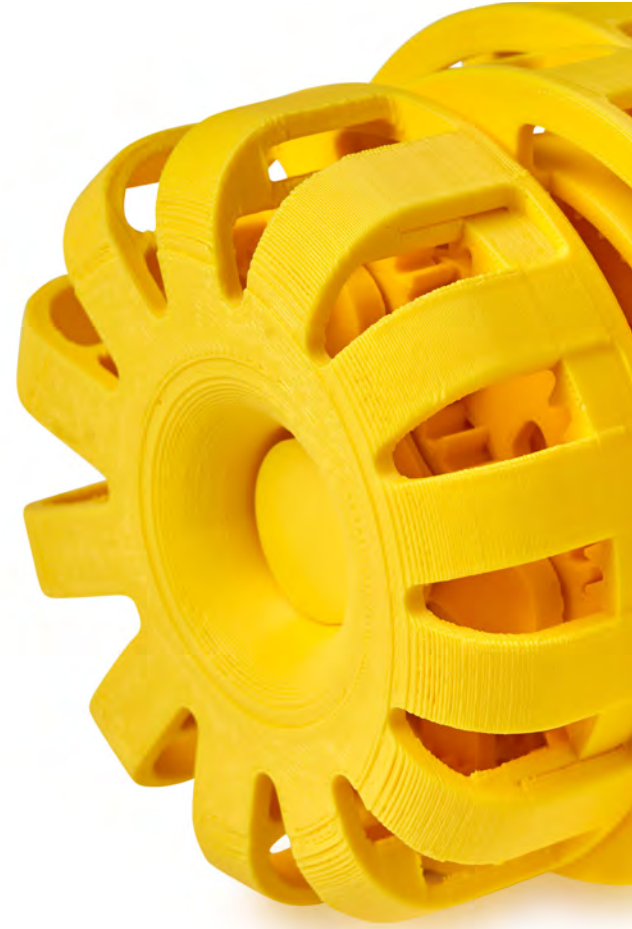


A photograph of a hand truck tire prototype on a concrete floor. The tire is black and has a textured surface. It is positioned on the left side of the frame. Next to it are a pair of work gloves and a pair of pliers. The background is a blurred industrial setting with a concrete floor and some metal structures.

Hand Truck Tire Prototype

FDM TPU 92A | Black

The durable elasticity of FDM® TPU 92A™ makes it a good choice for a wide variety of large and complex, rubber-like applications, including this tire prototype.





Planetary Gear

QSR Soluble Support + ASA | Yellow

By combining ASA and QSR Soluble Support™, you can create intricate parts with working components, like this planetary gear system, in one print.





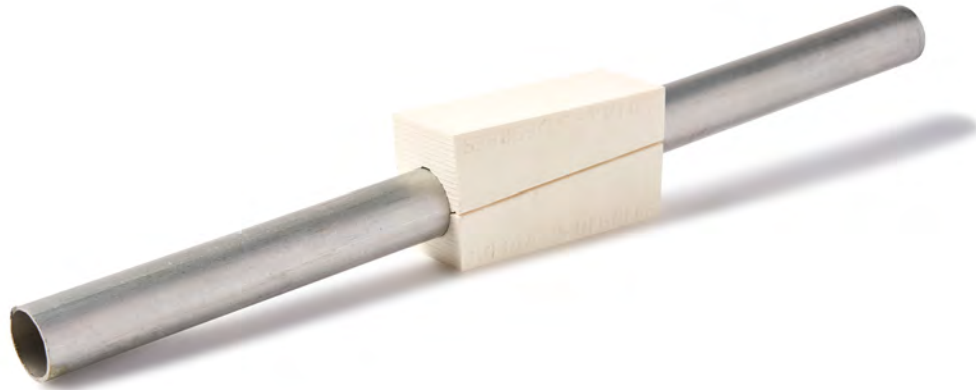
Snowmobile Ski

ASA | Functional Prototype

Offering mechanical strength, UV resistance and aesthetics, ASA printed on the F770™ 3D printer works well for large prototypes meant for heavy outdoor use.

Note: Due to size, this part can only be produced on the F770 3D printer.





Band Saw Angle Cutting Fixture

PC-ABS | Ivory

Strong and durable, PC-ABS (polycarbonate-ABS) is a high-impact engineering thermoplastic that's ideal for tooling applications such as this band saw angle cutting fixture.

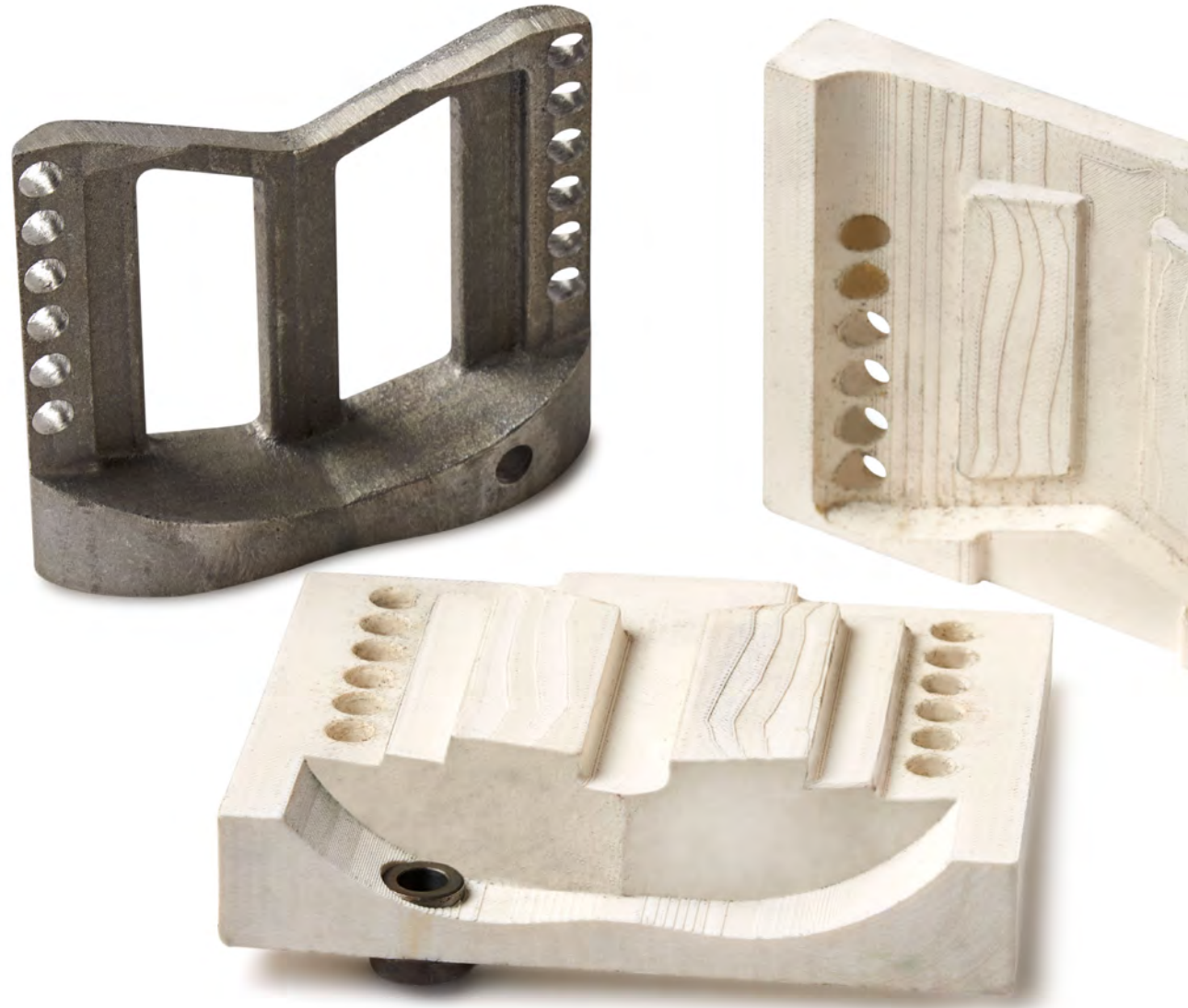


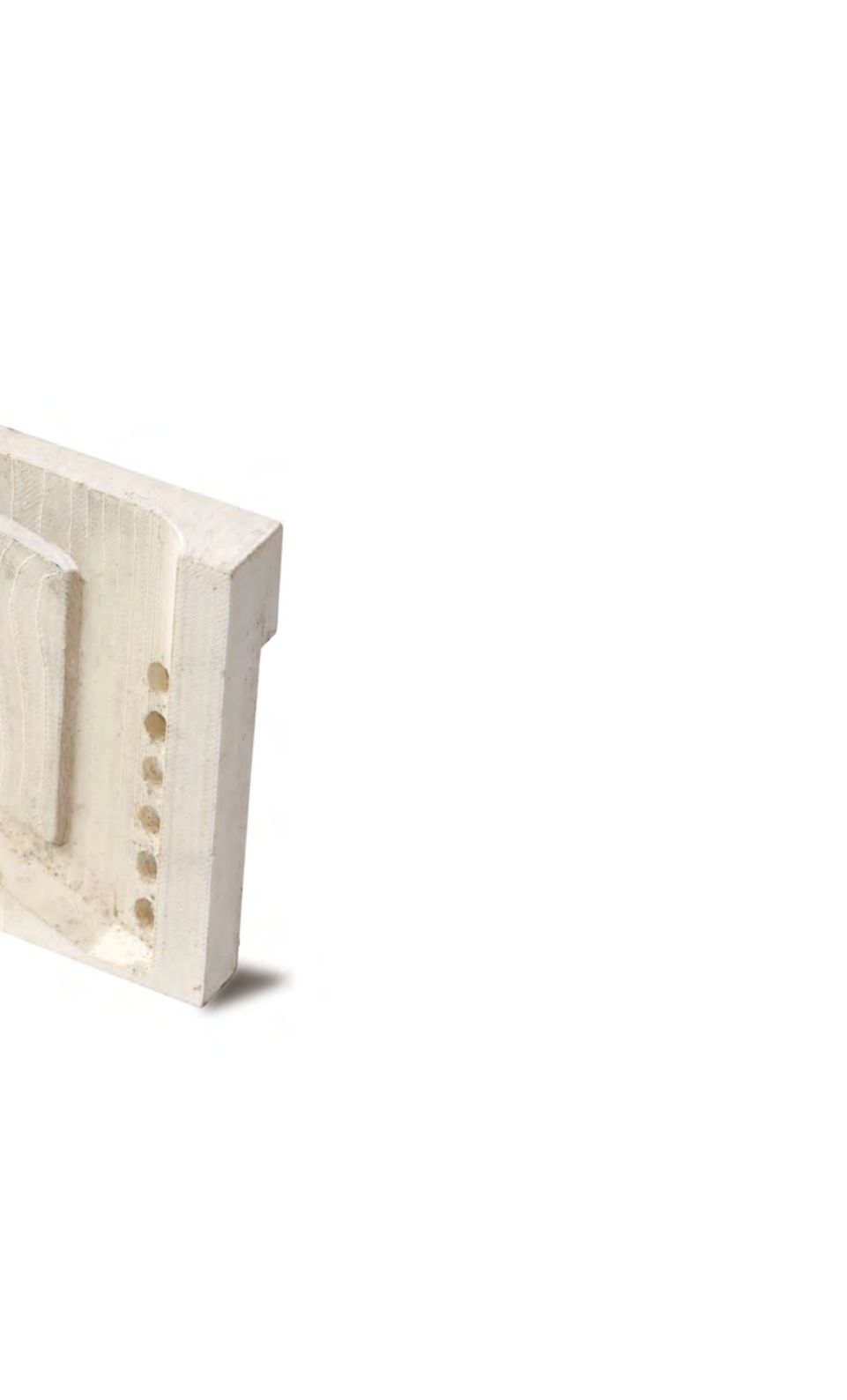


Golf Putter Casting Pattern

ASA | White

ASA's production-grade quality and ease of use make it well-suited for iterative design such as the refinement of casting patterns.

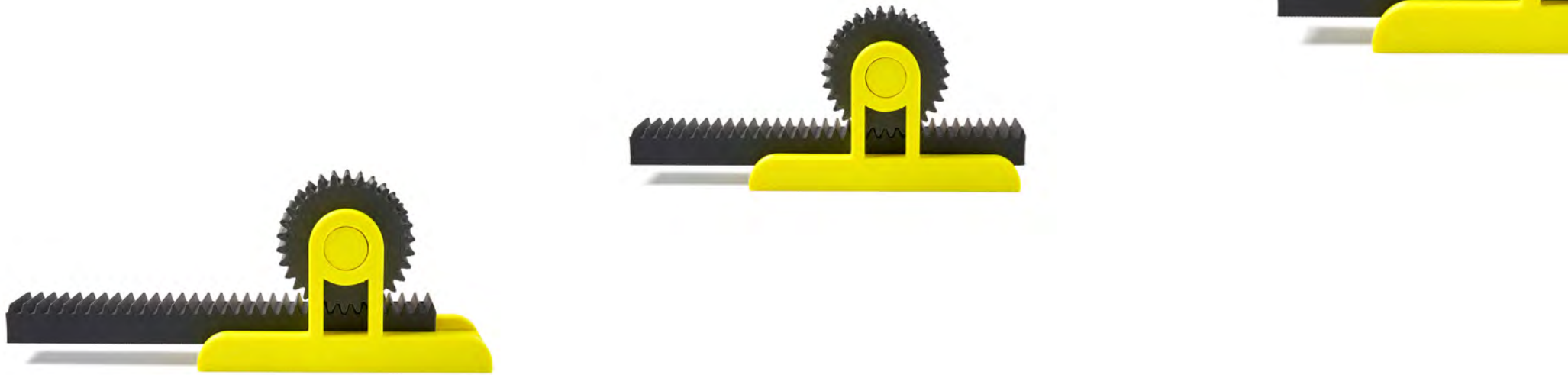




Rack & Pinion Prototype

Diran + ASA | Yellow

The smooth surface finish provided by Diran in combination with the color options and production quality provided by ABS, is a great choice for creating functional prototypes that demonstrate to stakeholders how finished products will actually work.

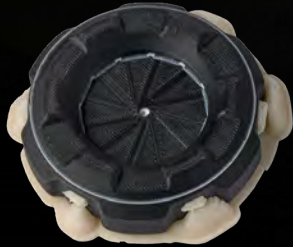




Camera Lens Cover

QSR Soluble Support + ASA | Black

By combining ASA and QSR Soluble Support, you can create intricate parts with working components in one print — like this camera lens that can be opened and closed in one quick twist.



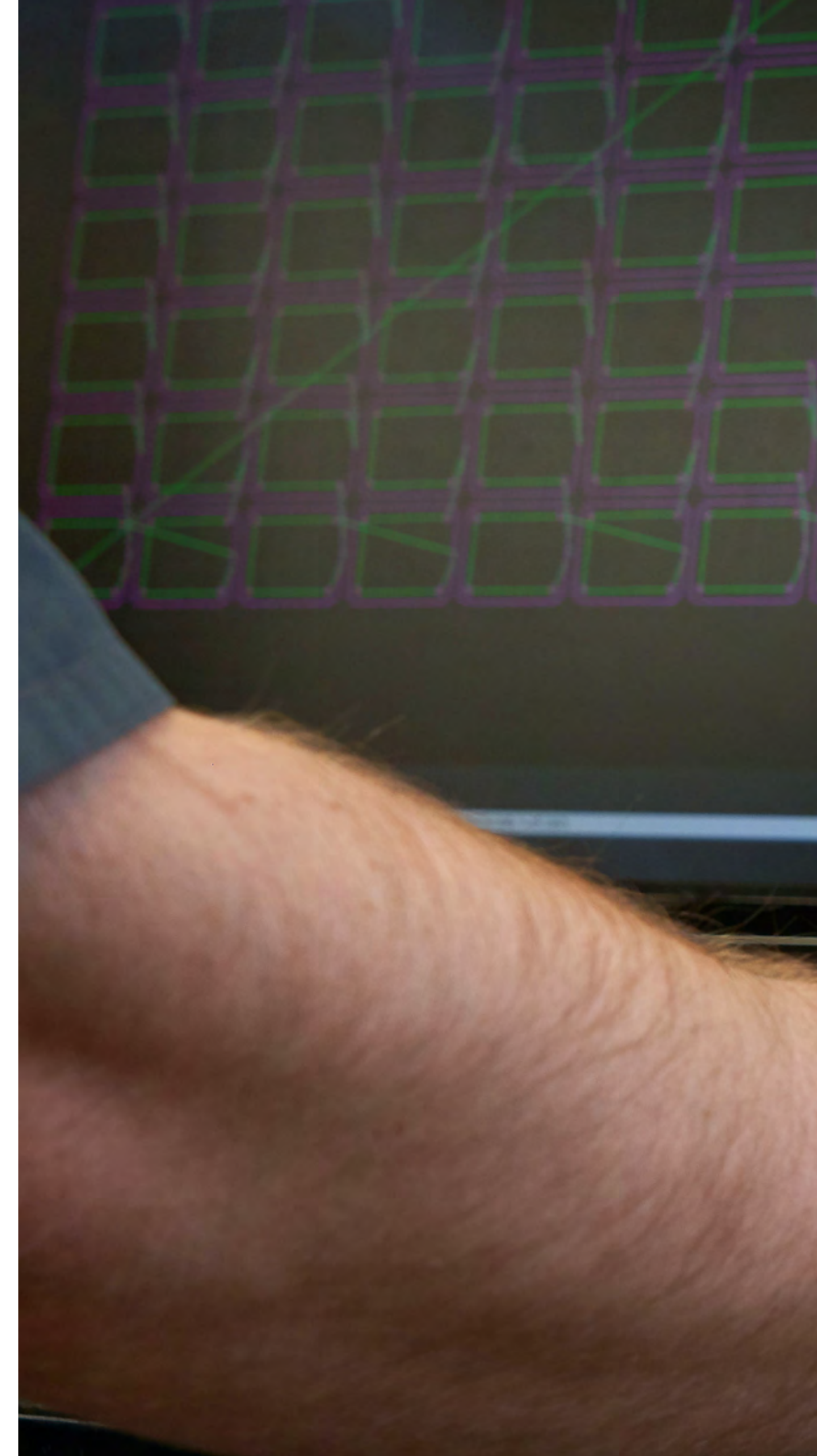




Switch Housing

PC-ABS | Black

Strong and durable, PC-ABS is ideal for functional and end-use parts in manufacturing, such as this custom-built switch housing for a water jet cover.









Drill Guide

FDM Nylon-CF10 | Dark Gray

Carbon fiber-filled FDM® Nylon-CF10 on the F190™CR and F370®CR composite printers has the stiffness required for rigid drill guides and accurate hole placement.

Note: FDM Nylon-CF10 is only available on the F190CR and F370CR composite printers.



Appliance Base

ABS-M30 | Prototype

This large prototype part printed in ABS-M30 was used to validate the fit of a clothes dryer base design. This type of prototype demonstrates the F770's capability to print large parts with thin walls and complex features.



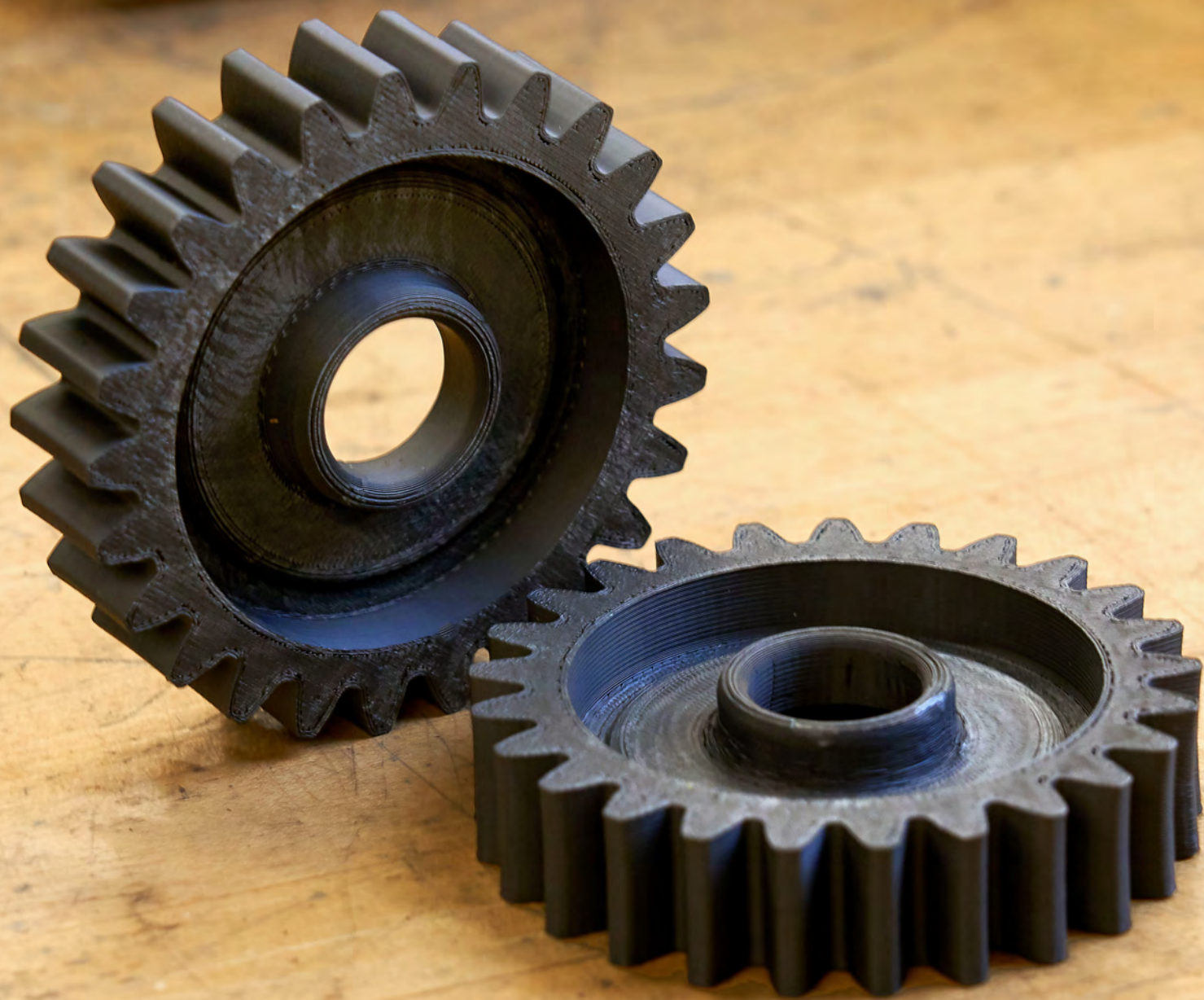
Note: Due to size, this part can only be produced on the F770 3D printer.

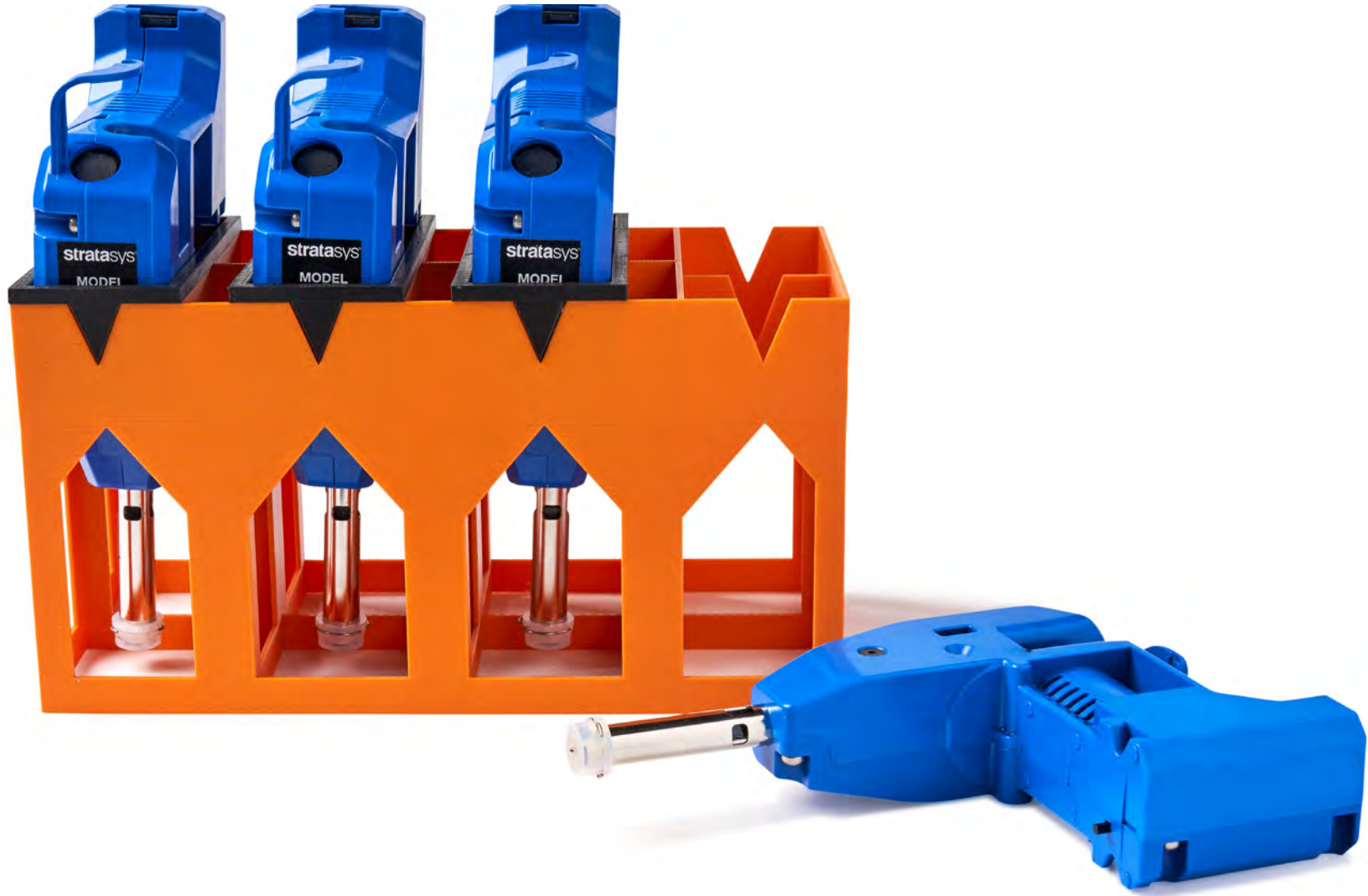


Replacement Parts

Diran | Grey

The exceptional toughness, hydrocarbon-based chemical resistance and lubricity of Diran make it an ideal choice for replacement parts like this small machine component.





Extruder Head Assembly Jig Holder

ASA + FDM TPU 92A | Yellow

The high mechanical strength and production-grade quality of ASA in combination with the rubber-like texture of FDM TPU 92A creates a durable, non-marring surface for assembly fixtures.





Shock Absorber Working Assembly

ABS | Red

Durable enough to perform virtually the same as production parts, ABS was ideal for prototyping this shock absorber.





Polaris Fixture

FDM TPU 92A | Black

Combining flexibility and stretch with abrasion and tear resistance, FDM TPU 92A is ideal for demanding manufacturing applications such as this assembly fixture.





Car Fender

ABS-M30™ | Prototype

When reliability and accuracy are required, ABS-M30 printed on the F770 3D printer delivers large parts with complex geometries and tight tolerances.



Fender prototype painted for aesthetic purposes.

Note: Due to size, this part can only be produced on the F770 3D printer.







Air Duct Plenum

ASA | Grey

Offering high mechanical strength and production-grade quality, ASA is well-suited for decreasing the time and cost it takes to create complex, end-use parts.

Start Achieving **Reliable Results**

Visit Stratasys.com for more information about the F123/F123CR series and F770 3D printers.



VARINEX Zrt.
1106 Budapest, Fehér út 10.
+36 1 432 0248
3DP@varinex.hu
varinex.hu

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